

### AMENDMENTS TO THE CLAIMS

This listing replaces all prior versions and listing of claims in the application.

#### Listing of Claims

1-102. (Canceled)

103. (New) A tangible computer-readable medium having computer-executable instructions for performing a method of qualifying lung carcinoma status in a subject, which method comprises: (A) transforming data extracted from a spectrum generated by mass spectroscopic analysis of a biological sample taken from the subject to identify component peaks of the spectrum; and then (B) matching the peaks to biomarker sets listed in Table 1 or Table 2, wherein positive matches to the biomarker sets are useable to qualify lung cancer.

104. (New) A tangible computer-readable medium according to claim 103, wherein the data extracted is characterized by binding to IMAC or WCX adsorbents.

105. (New) A tangible computer-readable medium according to claim 103, wherein said method further comprises qualifying lung cancer in the subject.